

2014-2015 Degree Map-Bachelor of Science in Chemistry: Biochemistry Option

This map is a term-by-term sample course schedule. The milestones listed to the right of each term are designed to keep you on course to graduate in four years. The Sample Schedule serves as a general guideline to help you build a full schedule each term. See course descriptions and prerequisites at <http://www.atu.edu/academics/catalog/>.

Possible careers include: Medical, Dental, Biophysicist, Chemical Engineer, Chemical Technician, Conservation Scientist, Environmental Engineer, Food Technologist, Forensic Science Technician, Industrial Air Pollution Analyst, Industrial Waste Inspector, Materials Scientist, Microbiologist, Pharmacist, Soil Scientist, Toxicologist, Water Pollution Control Inspector

#Remedial Courses (if applicable): ENGL 0303 _____ ENGL 0404 _____ READ 0103 _____ MATH 0903 _____

Sample Schedule	Milestones/Notes		
Semester 1	Hrs.	Grade	Semester 1
ENGL 1013-Comp I (ACTS=ENGL 1013)	3	#	
Social Science	3		
MATH 2914: Calculus I (ACTS= MATH 2405)	4		# C or > required for Gen Ed. Milestone
PHSC1001: Orientation to Physical Science	1		
CHEM2124/2120: General Chemistry I (ACTS= CHEM 1414)	4	#	Milestone
Total hours	15	GPA	

Semester 2	Hrs.	Grade	Semester 2
ENGL 1023: Comp II (ACTS= ENGL 1023)	3	#	
BIOL1114: Principles of Biology (ACTS= BIOL 1014)	4		
MATH2924: Calculus II (ACTS= MATH 2505)	4		
PHSC1011: Orientation to Physical Science II (MANDATORY)	1		
CHEM2134/2130: General Chemistry II (ACTS= CHEM 1424)	4	#	Milestone
Total hours	16	GPA	

Semester 3	Hrs.	Grade	Semester 3
Social Science	3		
PHYS 2014/2000: Phys. Princ. I or PHYS2114/2000: Gen. Phys	4		(ACTS= PHYS 2014 or 2034)
COMS2003*: Microcomp. Apps. or COMS2803: Prog. in C	3		*(COMS 2003 prereq.= COMS 1003)
CHEM3254: Fund. of Organic Chemistry	4	#	Milestone
Total hours	14	GPA	

Semester 4	Hrs.	Grade	Semester 4
U.S. History & Government	3		
PHYS 2024/2010: Phys. Princ. II or PHYS2124/2010: Gen. Phys	4		(ACTS= PHYS 2024 or 2044)
CHEM3245: Quantitative Analysis	5	#	
CHEM3264: Mechanistic Organic Chemistry	4	#	
Total hours	16	GPA	CHEM ADVISOR ASSIGNED

The Arkansas Course Transfer System (ACTS) is designed to assist in planning the academic progress of students. This system contains information about the transferability of courses within Arkansas public colleges and universities. The Arkansas Course Transfer System can be accessed at <http://acts.adhe.edu/>

Fine Arts and Humanities	U.S. History & Government
ART 2123 Experiencing Art (ACTS=ARTA1003)	HIST 1903 Survey of American History
MUS 2003 Introduction to Music (ACTS=MUSC1003)	HIST 2003 U.S. History I (ACTS=HIST2113)
TH 2273 Introduction to Theatre (ACTS=DRAM 1003)	HIST 2043 Honors U.S. History I
ENGL 2173 Introduction to Film	HIST 2013 U.S. History II (ACTS=HIST2123)
JOUR 2173 Introduction to Film	POLS 2003 American Government (ACTS=PLSC2003)
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)	Speech Courses
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	SPH 1003 Intro. to Speech Com. (ACTS=SPCH1003)
ENGL 2023 Honors World Literature	SPH 2003 Public Speaking
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)	SPH 2173 Business and Professional Speaking
PHIL 2043 Honors Introduction to Philosophy	

Prerequisites (if applicable): MATH 1914 (ACTS=MATH1305) _____ OR MATH 1203 (ACTS=MATH1203) _____

Sample Schedule	Milestones/Notes		
Semester 5	Hrs.	Grade	Semester 5
Fine Arts & Humanities	3		
BIOL2124: Principles of Zoology (ACTS= BIOL 1054)	4		
CHEM3301: Chemistry Seminar	1	#	
CHEM3344: Principles of Biochemistry	4	#	
General Elective	4		Recommend Statistics or ENGL2053
Total hours	16	GPA	

Semester 6	Hrs.	Grade	Semester 6
BIOL2014: Human Anatomy (ACTS=BIOL 2404)	4		
BIOL3034: Genetics	4		
CHEM3423: Descriptive Inorganic Chemistry	3	#	
CHEM3363: Metabolic Biochemistry	3	#	
Total hours	14	GPA	APPLY FOR GRADUATION

Semester 7	Hrs.	Grade	Semester 7
BIOL3074: Human Physiology or BIOL3174: Physiological Ecology	4		
CHEM3324: Physical Chemistry I	4	#	Pre-req: PHYS 2114
CHEM4414: Instrumental Analysis	4	#	
General Elective	4		Recommend Statistics or ENGL2053
Total hours	16	GPA	

Semester 8	Hrs.	Grade	Semester 8
Fine Arts & Humanities	3		
Social Sci/Fine Arts/Humanities/Speech	3		Graduation Requirements: Min. hours 3000-4000 level courses: 40 No more than 4 PE activity hours Min. hours required: 120 No more than 12 hours of D's.
BIOL4033: Cell Biology	3		
CHEM4401: Chemistry Seminar	1	#	
General Elective	3		
Total Hours	13	GPA	

General Electives: 11 hours 1000-4000 level (Statistics and ENGL 2053 recommended)

indicates a "C" or better is required

Social Sciences
HIST 1503 World Civilization (ACTS=HIST1113)
HIST 1513 World Civilization II (ACTS=HIST1123)
HIST 1543 Honors World Civilization I
HIST 2003 U.S. History I (ACTS=HIST2113)
HIST 2013 U.S. HISTORY II (ACTS=HIST2123)
HIST 2043 Honors U.S. History I
HIST 1903 Survey of American History
POLS 2003 American Government (ACTS=PLSC2003)
ECON 2003 Principles of Economics I (ACTS=ECON2103)
ECON 2103 Honors Principles of Economics I
ECON 2013 Principles of Economics II (ACTS=ECON2203)
SOC 1003 Introductory Sociology (ACTS=SOCI1013)
PSY 2003 General Psychology (ACTS=PSYC1103)
ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013)
ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)
AMST 2003 American Studies